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ABSTRACT

Chapters in this book present the challenges and dilemmas faced by researchers as they created new computerized assessments, focusing on issues addressed in developing, scoring, and administering the assessments. Chapters are: (1) "Beyond Bells and Whistles; An Introduction to Computerized Assessment" (Julie B. Olson-Buchanan and Fritz Drasgow); (2) "The Development of a Computerized Selection System for Computer Programmers in a Financial Services Company" (Michael J. Zickar, Randall C. Overton, L. Rogers Taylor, and Harvey J. Harms); (3) "Development of the Computerized Adaptive Testing Version of the Armed Services Vocational Aptitude Battery" (Daniel O. Segall and Kathleen E. Moreno); (4) "CAT for Certification and Licensure" (Betty A. Bergstrom and Mary E. Lunz); (5) "Developing Computerized Adaptive Tests for School Children" (G. Gage Kingsbury and Ronald L. Houser); (6) "Development and Introduction of a Computer Adaptive Graduate Record Examinations General Test" (Craig N. Mills); (7) "Computer Assessment Using Visual Stimuli: A Test of Dermatological Skin Disorders" (Terry A. Ackerman, John Evans, Kwang-Seon Park, Claudia Tamassia, and Ronna Turner); (8) "Creating Computerized Adaptive Tests of Music Aptitude: Problems, Solutions, and Future Directions" (Walter P. Vispoel); (9) "Development of an Interactive Video Assessment: Trials and Tribulations" (Fritz Drasgow, Julie B. Olson-Buchanan, and Philip J. Moberg); (10) "Computerized Assessment of Skill for a Highly Technical Job" (Mary Ann Hanson, Walter C. Borman, Henry J. Mogilka, Carol Manning, and Jerry W. Hedge); (11) "Easing the Implementation of Behavioral Testing through Computerization" (Wayne A. Burroughs, Janet Murray, S. Scott Wesley, Debra R. Medina, Stacy L. Penn, Steven R. Gordon, and Michael Catello); and (12) "Blood, Sweat, and Tears: Some Final Comments on Computerized Assessment." (Fritz Drasgow and Julie B. Olson-Buchanan). Each chapter contains references. (Contains 17 tables and 21 figures.) (SLD)

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